## IN THE CLAIMS

Please AMEND the claims as follows:

- 1-51. (Cancelled)
- 52. (Currently Amended) A method for modifying the saturated fatty acid content in transgenic plant seeds, comprising:
- a) providing for expression of a heterologous  $\beta$ -ketoacyl-ACP synthase protein in said transgenic plant, wherein said heterologous  $\beta$ -ketoacyl-ACP synthase comprises an amino acid sequence at least 95% identical to SEQ ID NO: 2, and
- b) providing for expression of a heterologous <u>delta-9</u> desaturase protein in said transgenic plant,
- e) such that said transgenic plant produces <u>said</u> heterologous  $\beta$ -ketoacyl-ACP synthase protein and <u>said</u> heterologous <u>delta-9</u> desaturase protein and thereby modifies the saturated fatty acid content in said transgenic plant seeds.
- 53. (Currently Amended) The method according to claim 52, wherein said heterologous β-ketoacyl-ACP synthase comprises the coding sequence set forth in SEQ ID NO: 1.
- 54. (Currently Amended) The method according to claim 52, wherein said heterologous β-ketoacyl-ACP synthase has comprises the amino acid sequence set forth in SEQ ID NO: 2.
- 55. (Currently Amended) The method according to claim 52, wherein said heterologous <u>delta-9</u> desaturase is a safflower delta-9 desaturase.

- 56. (Previously Presented) The method according to claim 52, wherein said method further comprises providing for expression of a second heterologous  $\beta$ -ketoacyl-ACP synthase protein.
  - 57. (Cancelled)
- 58. (Previously Presented) The method according to claim 52, wherein said modification of saturated fatty acids is a reduction in total saturated fatty acids.
- 59. (Previously Presented) The method according to claim 52, wherein said modification of saturated fatty acids is a reduction in C16:0 fatty acids.
- 60. (Previously Presented) The method according to claim 52, wherein said modification of saturated fatty acids is a reduction of total fatty acids to a level less than about 3.5 weight percent.
- 61. (Currently Amended) The method according to claim 52, wherein said heterologous β-ketoacyl-ACP synthase and said heterologous delta-9 desaturase are arranged in a monocistronic configuration in an expression construct.
- 62. (Currently Amended) The method according to claim 52, wherein said <a href="https://heterologous">heterologous</a> β-ketoacyl-ACP synthase and said <a href="https://heterologous.com/hetero
- 63. (Currently Amended) The method according to claim 52, wherein said heterologous  $\beta$ -ketoacyl-ACP synthase and said heterologous delta-9 desaturase are provided on separate expression constructs.
- 64. (Currently Amended) The method according to claim 52, wherein said <a href="heterologous">heterologous</a> β-ketoacyl-ACP synthase and said <a href="heterologous delta-9">heterologous delta-9</a> desaturase are provided by

crossing a plant line expressing said  $\beta$ -ketoacyl-ACP synthase with a plant line expressing said desaturase.

## 65. (Cancelled)

- 66. (New) A method for modifying the saturated fatty acid content in transgenic plant seeds, comprising:
- a) providing for expression of a heterologous  $\beta$ -ketoacyl-ACP synthase protein in said transgenic plant that comprises a coding sequence at least 95% identical to SEQ ID NO: 1, and
- b) providing for expression of a heterologous delta-9 desaturase protein in said transgenic plant, such that said transgenic plant produces said heterologous β-ketoacyl-ACP synthase protein and said heterologous delta-9 desaturase protein and thereby modifies the saturated fatty acid content in said transgenic plant seeds.
- 67. (New) A method for modifying the saturated fatty acid content in transgenic plant seeds, comprising:
- a) providing for expression of a heterologous  $\beta$ -ketoacyl-ACP synthase protein in said transgenic plant, wherein said heterologous  $\beta$ -ketoacyl-ACP synthase is a *Cuphea pulcherrima* KAS I, and
- b) providing for expression of a heterologous delta-9 desaturase protein in said transgenic plant;
- c) producing in said transgenic plant said heterologous  $\beta$ -ketoacyl-ACP synthase protein and said heterologous delta-9 desaturase protein and thereby
  - d) modifing the saturated fatty acid content in said transgenic plant seeds.
- 68. (New) The method according to claim 67, wherein said method further comprises providing for expression of a second heterologous  $\beta$ -ketoacyl-ACP synthase protein.
- 69. (New) The method according to claim 68, wherein said second heterologous β-ketoacyl-ACP synthase is a *Cuphea pulcherrima* KAS IV.

- 70. (New) The method according to claim 67, wherein said heterologous delta-9 desaturase is a safflower delta-9 desaturase.
- 71. (New) The method according to claim 69, wherein said heterologous delta-9 desaturase is a safflower delta-9 desaturase.